## What is claimed is:

- 1 1. An interposer for providing electrical connections between
- 2 lands of a Land Grid Array (LGA) device and corresponding lands
- of an electronic assembly, said interposer comprising:
- an interposer frame comprising a substantially planar
- insulating sheet defining voids through said insulating sheet
- 6 perpendicular to a primary plane of the interposer frame, said
- 7 voids provided for the insertion of contacts spaced in a grid-
- 8 array;
- a plurality of flexible metal conductive contacts each
- having a first contact end and a second contact end, and wherein
- said contacts are inserted within and through the voids defined
- by said interposer frame such that said first contact extends
- above a top surface of said interposer frame and said second
- 14 contact extends below a bottom surface of said interposer frame;
- 15 and
- an elastic adhesive disposed between said contacts and said
- interposer frame and adhered to said interposer frame, whereby
- said contacts are mechanically retained to said interposer frame
- while permitting travel of said contacts in a direction
- 20 perpendicular to said interposer frame via flexure of said
- 21 elastic adhesive.
- 1 2. The interposer of Claim 1, wherein said elastic adhesive is
- 2 disposed completely around a periphery of a portion of said voids
- 3 and further adhered to said contacts, said portion being located
- 4 within said voids between said top surface and said bottom
- 5 surface of said interposer frame, whereby said contacts are
- 6 surrounded by said adhesive and retained to said interposer by
- 7 said adhesive.

- 1 3. The interposer of Claim 1, wherein said elastic adhesive is
- disposed partially around a periphery of a portion of said voids
- and further adhered to said contacts, said portion being located
- 4 within said voids between said top surface and said bottom
- s surface of said interposer frame, whereby said contacts are
- surrounded by said adhesive and retained to said interposer by
- 7 said adhesive.
- 1 4. The interposer of Claim 1, wherein said contacts are spring
- 2 contacts comprising a curved metal form.
- 5. The interposer of Claim 4, wherein said elastic adhesive is
- 2 disposed only within a central portion of said curved metal form
- and wherein said elastic adhesive is bonded to said interposer
- frame in a direction perpendicular to a direction of curvature of
- said contacts, whereby said contacts are retained.
- 6. The interposer of Claim 5, wherein said elastic adhesive is
- 2 further adhered to said contacts, whereby said contacts are
- 3 retained within said interposer frame.
- 7. The interposer of Claim 5, wherein said elastic adhesive is a
- self-healing adhesive, whereby said contacts are be inserted in
- said voids after cure of the elastic adhesive, whereby said
- 4 contacts are retained by displacement of said elastic adhesive
- with no adhesion between said contacts and said elastic adhesive.
- 1 8. The interposer of Claim 1, wherein said contacts are fuzz
- 2 buttons comprising bundled wire.

- 9. The interposer of Claim 8, wherein said bundled wire is a
- 2 single wire for each contact that is spun into a button form for
- 3 providing substantially cylinder-shaped contacts, and wherein
- 4 said elastic adhesive is disposed completely around a
- 5 circumference of at least a portion of said contacts for
- 6 maintaining said cylindrical shape of said bundled wire.

- 1 10. A method for manufacturing an interposer for providing
- 2 electrical connections between lands of a Land Grid Array (LGA)
- device and corresponding lands of an electronic assembly, said
- 4 method comprising:
- providing an interposer frame having voids therethrough at
- 6 contact positions of said lands;
- inserting into said voids in said interposer frame a
- 8 plurality of flexible metal conductive contacts; and
- depositing an elastic adhesive between each of said contacts
- and said interposer frame, whereby said contact is mechanically
- retained to said interposer frame while permitting travel of said
- contact in response to flexure of said elastic adhesive.
- 1 11. The method of Claim 10, wherein said depositing is performed
- 2 prior to performing said inserting.
- 1 12. The method of Claim 11, further comprising curing said
- adhesive prior to performing said inserting.
- 1 3. The method of Claim 10, wherein said inserting is performed
- 2 prior to said depositing and wherein said depositing deposits
- 3 adhesive around the periphery of said contacts.
- 1 14. The method of Claim 13, wherein said inserting inserts fuzz
- 2 buttons and wherein said depositing deposits said adhesive
- 3 completely around a periphery of said voids, whereby a shape of
- 4 said fuzz buttons is retained by said elastic adhesive.
- 1 15. The method of Claim 10, wherein said inserting is performed
- 2 prior to said depositing and wherein said depositing deposits
- 3 adhesive within a body of said contacts.

- 1 16. The method of Claim 10, wherein said adhesive is deposited
- only in an interior of said voids, whereby said adhesive does not
- 3 extend to a top nor a bottom surface of said interposer frame.

- 1 17. An interposer for providing electrical connections between
- 2 lands of a Land Grid Array (LGA) device and corresponding lands
- of an electronic assembly, said interposer comprising:
- an interposer frame comprising a substantially planar
- insulating sheet defining voids through said insulating sheet
- 6 perpendicular to a primary plane of the interposer frame, said
- voids provided for the insertion of contacts spaced in a grid-
- 8 array;
- a plurality of flexible metal conductive contacts each
- 10 having a first contact end and a second contact end, and wherein
- said contacts are inserted within and through the voids defined
- by said interposer frame such that said first contact extends
- above a top surface of said interposer frame and said second
- contact extends below a bottom surface of said interposer frame;
- 15 and
- means for mechanically retaining said contacts to said
- interposer frame, whereby said contacts are mechanically retained
- 18 to said interposer frame while permitting travel of said contacts
- in a direction perpendicular to said interposer frame.
- 8. The interposer of Claim 17, wherein said contact retaining
- 2 means is bonded to said contacts.
- 1 19. The interposer of Claim 17, wherein said contacts are bundled
- wire having a substantially cylindrical shape and further
- 3 comprising means for maintaining a shape of said bundled wire.
- 1 20. The interposer of Claim 19, wherein said shape maintaining
- 2 means is said contact retaining means.